

CLAIMS

1. A refrigerator comprising:

a door filled with heat insulator therein;

5 a water storage tank unit disposed at a high place of an inner face of the door, and the water storage tank unit including a water storage tank and a tank cover;

a water feeder disposed on a front face of the door; and

a water feeding tube coupling the tank unit to the water feeder,

10 and including a water feeder outlet at an end of the tube,

wherein the water feeding tube slants upward from the water feeder to the tank unit.

2. The refrigerator of claim 1 further comprising:

15 a water feeder cover for covering the water feeder; and

a water feeder outlet guide for surrounding the water feeder outlet,

wherein the guide slants forward, and a lower end of the guide is substantially flush with a lower end of the cover.

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3. The refrigerator of claim 1, wherein the water feeding tube has a greater inner diameter than that of the water feeder outlet.

4. The refrigerator of claim 1, wherein the water storage tank is coupled
25 to the water feeding tube by a packing made from soft rubber.

5. The refrigerator of claim 1, wherein the water feeder includes a water

feed controlling unit for opening/closing the water feeder outlet.

6. The refrigerator of claim 5, wherein the water feed controlling unit includes:

5 a canopy mounted to the water feeding tube above the water feeder outlet;

 a sliding rod extending through the canopy in a sliding manner;

 a spring mounted on the sliding rod;

 a rubber lid mounted to the sliding rod;

10 a pin; and

 a water feeding lever coupled to the sliding rod via the pin above the canopy.

7. The refrigerator of claim 6, wherein the feeding lever of the water
15 feed controlling unit includes a hole at a center section, and the feeding tube is placed in the hole of the lever free from interfering with the lever.

8. The refrigerator of claim 6, wherein the water feeding lever has a
multi-rib structure which holds the pin of the water feed controlling unit.

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9. The refrigerator of claim 1, wherein the door includes a guide member in the heat insulator, and the water feeding tube extends through the door via the guide member.

25 10. The refrigerator of claim 1, wherein the tank cover sandwiches a seal packing therein and is mounted to the water storage tank.

11. The refrigerator of claim 1, wherein the tank cover is fixed to the water storage tank by at least one slide lever.

12. The refrigerator of claim 1, wherein the water storage tank is fixed
5 to a projection provided on the inner face of the door at its upper section, and fixed to the inner face of the door at its lower section by a stopper.

13. The refrigerator of claim 1, wherein the tank cover is equipped with a rotary and circular tank cap.